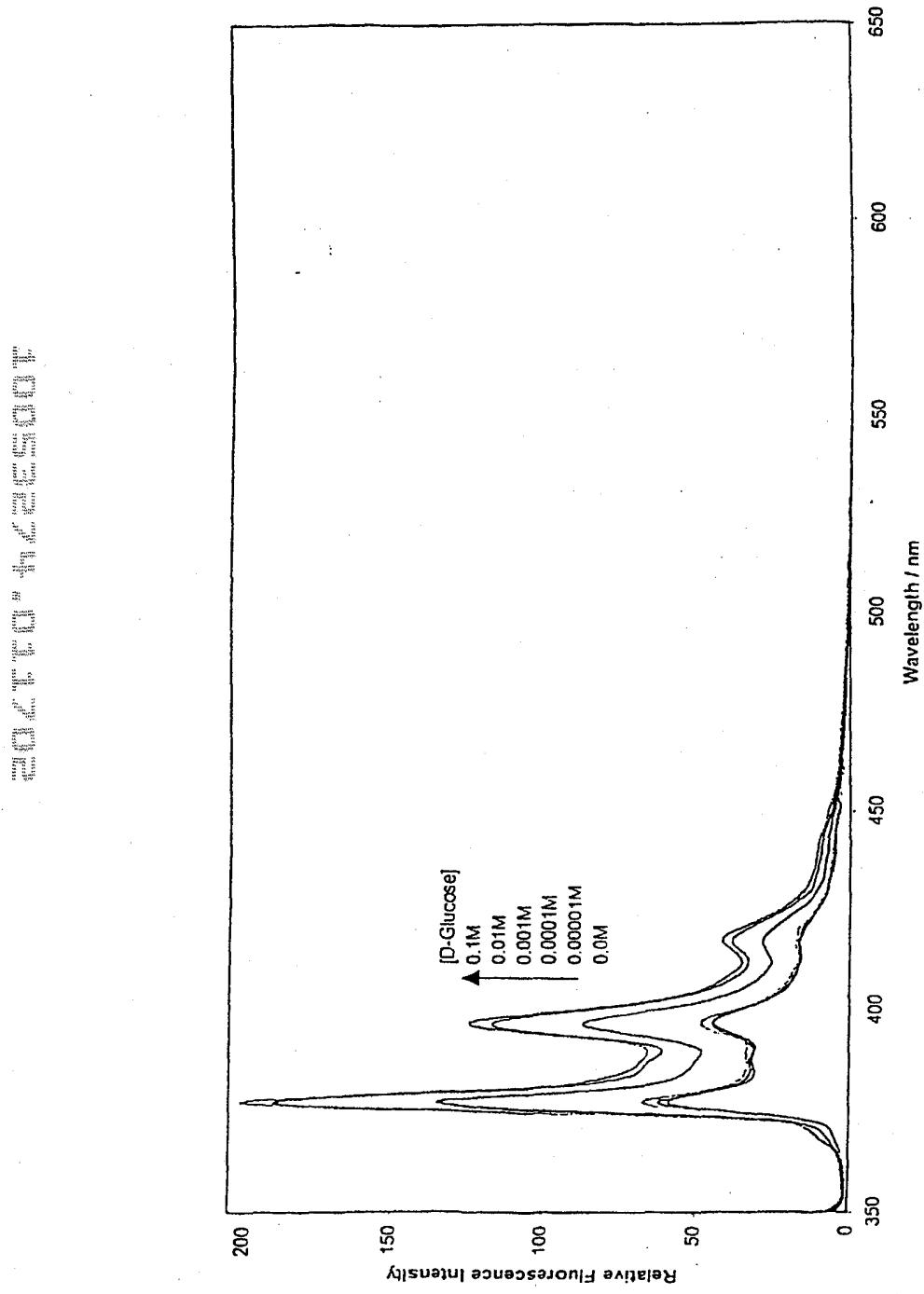


i) benzaldehyde, THF / EtOH, r.t., 24h, ii)  $\text{NaBH}_4$ , THF, r.t., 7h, 74% (2 steps total),  
 iii) 1-pyrenealdehyde, THF / MeOH, r.t., 20h, 93%, iv)  $\text{NaBH}_4$ , MeOH, r.t., 3h, 92%  
 v) 2,  $\text{K}_2\text{CO}_3$ , MeCN, reflux, 20h, vi) THF / water, r.t., 3h, 35%

Figure 1

Figure 2



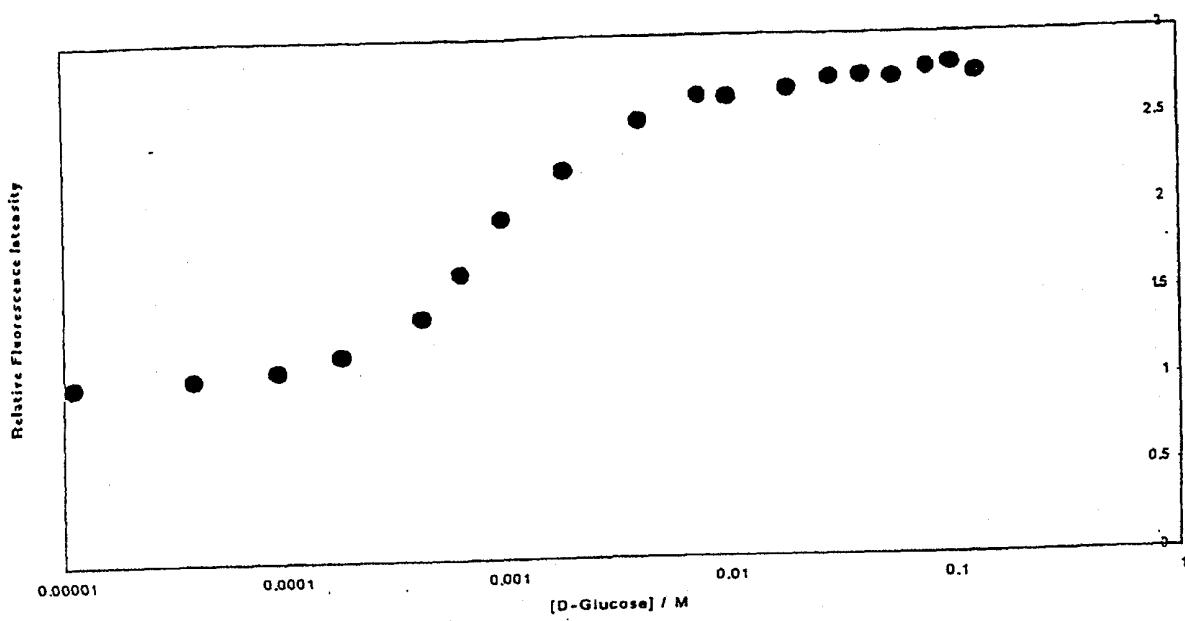


Figure 3